

## **REMARKS**

Claims 1-9 are all the claims pending in the application. The Examiner objects to the Drawings and to the Specification for the inclusion of reference symbols that do not relate the specification to the drawings. Further, the Examiner rejects claims 1-9 under 35 U.S.C. §102(e) as being anticipated by Ueyanagi (US 6,700,856).

### **Specification and Drawing Objections**

Applicant amends the specification to claim priority under 35 U.S.C. § 119(a) to Korean Application No. 13910/2001 filed March 17.

Applicant has amended the specification to include all reference symbols that appear in the drawings, and to remove all reference symbols that do not appear in the drawing. Applicant believes these amendments overcome the Examiner's objections, and respectfully request reconsideration and withdrawal of the objections.

### **§ 102(e) Rejection**

Claims 1-9 have been rejected under 35 U.S.C. 102(e) as being anticipated by Ueyanagi (US 6,700,856).

A proper rejection for anticipation under § 102 requires complete identity of invention. The claimed invention, including each element thereof as recited in the claims, must be disclosed or embodied, either expressly or inherently, in a single reference. Scripps Clinic & Research Found. v. Genentech Inc., 927 F.2d 1565, 1576, 18 U.S.P.Q.2d 1001, 1010 (Fed. Cir. 1991); Standard Havens Prods., Inc. v. Gencor Indus., Inc., 953 F.2d 1360, 1369, 21 U.S.P.Q.2d 1321, 1328 (Fed. Cir. 1991). Applicant respectfully traverses these rejections.

### **Claim 1**

Ueyanagi is directed to an optical head for recording and reading optical data such as may be found on an optical storage disk. As part of the optical head, Ueyanagi discloses a "transparent condensing medium", whereas the condensing medium is a portion of a sphere (Fig.

1A, Fig. 3A, Fig. 6, and Fig. 9A), flat (Fig. 7) or parabola (Fig.7A and Fig.10). In contrast, the present application discloses a solid immersion mirror having an ellipsoid shape.

As described in the specification beginning at page 6, line 11, an ellipsoid is defined as a surface being a trace of points such that the sum of the distances between the foci and any point on the surface is constant. Owing to the geometric characteristics of the ellipsoid, if a line passing a focal point (a) as shown in Figure 3A is reflected from the ellipsoidal surface, the line is reflected to the other focal point (b).

Because Ueyanagi fails to disclose an ellipsoid, none of Ueyanagi's mirrors have "a second reflection side being formed to be an ellipsoid" as in claim 1.

In the present invention, the first reflection side is formed in such a way that one of two focal points of an ellipsoid is positioned thereon. A point symmetrical to the other focal point of the ellipsoid is positioned at the plane of incidence respect to the first reflection side. This structural feature, which can be easily understood by referring to Figs. 3A and 3B, enables the optical lens to be extremely thin, and thus a resultant optical system to be very small and light.

Applicant respectfully submits that because Ueyanagi does not teach each and every element of the claimed invention, Ueyanagi does not anticipate the invention of claim 1. Thus, for the reasons discussed above, claim 1 is allowable. Claims 2-9 are dependent from claim 1 and therefore are also allowable.

#### Claims 10-16

Applicant adds independent claim 10 and dependent claims 11-16 to more fully claim the invention described herein, and believes these claims are allowable and respectfully requests consideration and early allowance.


### CONCLUSION

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly invited to contact the undersigned at the telephone number listed below.

Respectfully submitted,  
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